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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
. 10/532,651	04/25/2005	Takaaki Miyamoto	075834.00537	6311
33448 7590 ROBERT J. DEPKI	12/20/2006 E	EXAMINER		
LEWIS T. STEAD	MAN	DO, AN H		
ROCKEY, DEPKE SUITE 5450 SEAR		TZINGER, LLC	ART UNIT	PAPER NUMBER
CHICAGO, IL 6060		2853	· .	
-				
SHORTENED STATUTORY PER	UOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTH	3	12/20/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Apı	olication No.	Applicant(s)					
Office Action Summary		10	/532,651	MIYAMOTO ET	MIYAMOTO ET AL.				
		Exa	miner	Art Unit					
			H. Do	2853					
The N Period for Reply	MAILING DATE of this communica Y	ation appears	on the cover sheet	with the correspondence	address				
WHICHEVER - Extensions of ti after SIX (6) Mi - If NO period for - Failure to reply Any reply receivers	IED STATUTORY PERIOD FOR IS LONGER, FROM THE MAI ime may be available under the provisions of ONTHS from the mailing date of this commun reply is specified above, the maximum statut within the set or extended period for reply will ved by the Office later than three months afte erm adjustment. See 37 CFR 1.704(b).	LING DATE (37 CFR 1.136(a). ication. tory period will app I, by statute, cause	OF THIS COMMUII In no event, however, may by and will expire SIX (6) Me the application to become	NICATION. The a reply be timely filed SONTHS from the mailing date of the ABANDONED (35 U.S.C. § 133).					
Status									
1)⊠ Respo	nsive to communication(s) filed	on 02 Octobe	or 2006						
	•		,						
· <u> </u>	 ☑ This action is FINAL. ☑ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of C	•	•	,						
·		ication							
,	 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 								
	5) Claim(s) is/are allowed.								
·	s) <u>1-4</u> is/are rejected.								
•	s) is/are objected to.								
	s) are subject to restriction	on and/or elec	ction requirement.						
Application Pap	•		·						
•	ecification is objected to by the E			to too the Freezina					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
	nt may not request that any objection								
	ement drawing sheet(s) including th								
ii)∐j ine oa	th or declaration is objected to b	y the Examin	er. Note the attach	led Office Action of form	P10-152.				
Priority under 3	5 U.S.C. § 119								
	vledgment is made of a claim for b) Some * c) None of:	r foreign prior	ity under 35 U.S.C	. § 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
i	application from the Internationa	ıl Bureau (PC	T Rule 17.2(a)).						
* See the	attached detailed Office action f	for a list of the	e certified copies n	ot received.					
					•				
Attachment(s)									
	rences Cited (PTO-892)		4) Interview	w Summary (PTO-413)					
2) D Notice of Draft	tsperson's Patent Drawing Review (PTC)-948)	Paper N	lo(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Attachments 5) Notice of Informal Patent Application 6) Other:									

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DETAILED ACTION

The Amendment filed on 02 October 2006 has been acknowledged.

Information Disclosure Statement

1. The information disclosure statements (IDS) submitted on 05 June 2006 and 08 November 2006 were filed and are being considered by the examiner.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyamoto et al (JP 2003237089).

Miyamoto et al disclose in Figures 4-9 the following claimed features:

Regarding claims 1 and 3, a liquid ejecting device comprising: at least one heating element (22) and at least one metal oxide field effect transistor (28) to drive said heating elements (22) which is formed such that said heating element is distally located from, and driven by said metal oxide field effect transistor (28), so as to heat a liquid contained in a liquid chamber (30), thereby ejecting said liquid, characterized in that said metal oxide field effect transistor (28) has a polycide gate or a metal gate (G).

Regarding claim 4, Miyamoto et al also teach a process for production a liquid ejecting device in view of the fact that the above structure is taught.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miyamoto et al (JP 2003237089) in view of Silverbrook (US 5,841,452).

Miyamoto et al disclose the claimed invention except for reciting the gate has a gate length no larger than 2 μm .

Silverbrook teaches the gate has a gate length no larger than 2 μm (column 27, lines 65-67).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the gate has a gate length no larger than 2 µm, as taught by Silverbrook into Miyamoto et al, for the purpose of getting advantage of using a very fine process (column 27, lines 64-65).

Response to Arguments

- 6. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection. The newly found reference of Miyamoto et al (JP 2003237089) discloses the claimed invention as discussed above.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to An H. Do whose telephone number is 571-272-2143. The examiner can normally be reached on Monday-Friday (Flexible).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AD December 14, 2006 An H. Do Primary Examiner Art Unit 2853